

# **Patria** SKY Drone

Multi-Mission Small Unmanned Systems



**Battlefield and Critical Systems**

**Patria SKY** is a new multi-mission long-range UAV system designed in cooperation with professional security industry operators for demanding and high-level security use.

The drone is designed, tested and built in Finland. The manufacturing and maintenance process have been inspected and approved by the Finnish authorities.

## Skycontrol GCS

- SkyControl GCS with 7" 750 cd/m<sup>2</sup> screen that is usable with gloves on
- IP 65 with drop protection up to 1.5 m
- All critical flight functions designed for physical switches and it's easy to use in demanding conditions
- The software integrated by Nordic Drones Oy enables easy use of flight functions with one device
- MIL-STD-810G
- Battery hot-swap
- Live feed. Operator can monitor the image visible to UAV and control the UAV EO/IR gimbal
- Near real time video transmission

## System packaging

- Transport cases meet the most demanding quality classifications and standards such as MIL-STD-810F and FED-STD-101C
- IP67
- Flight case outer dimensions 62.5 x 50 x 36.6 cm
- Battery case outer dimensions 62.5 x 50 x 21.8 cm

## Drone specifications

- Weight 2.2 kg
- Weight flight ready 4.0 kg
- MTOW 6.5 kg
- IP43 motors and airframe
- Dimensions 58 x 58 x 37 cm
- Operating temperature -20 °C - +45 °C

- Endurance up to 64 minutes
- Controlled operational range 15 km, ability of flight 40 km
- Max speed 22 m/s
- Lithium Polymer (LiPo) battery
- 18" x 6.5" carbon fibre propellers with quick locks

## Features

- Removable parts, packable into a small case or even to a tactical backpack
- Carbon fiber IP-rated airframe with 3D-printed titanium core
- Capable of fully automated missions including take-off and landing
- Includes automatic return to launch (RTL) function
- Calibration free
- Bright on/off LED lights for easy navigation
- IR- navigation light
- Compatible with different payloads with easy and quick assembly
- Tether capability
- Automatic safety checks before flight
- The aircraft is connected to a GCS from which data can be routed out
- The UAV-system does not require registration nor do any updates to the external network unless the user wants to
- UAV flight path and action programming
- Secure encrypted control and video information exchange channels
- Recorded data can be transmitted to another user via radio communication equipment
- Capable of programmable flight mode beyond line of sight
- Vertical take-off and landing
- Alternative navigation: visual
- Option: ADS-B transponder
- Allow the coordinates and other required information of the surveilled object to be set to correct the artillery fire



## Radio specifications

- Encryption AES 128/256-bit
- Radio frequency lists can be provided to the end user
- Transmission power adjustment 100 mW (standard) - 2500 mW
- Range 5 km (100 mW) to 8 km (250 mW) or more with more mW
- Adjustable transmission bitrate, at least 5 Mb/s
- Video Streaming over network
- Can be operated inside vehicle and while on the move

## Nextvision Dragoneye 2

- Lightweight, only 115 g
- EO resolution 1280 x 720, zoom X40 (20X + 2Xdigital)
- Thermal resolution 640 x 480, LWIR uncooled, 4X digital zoom
- Object Detection and Classification
- Static and moving object tracking
- Video recording
- IPX4
- Operating temperature -20 °C - +55 °C
- Offering unparalleled long range observation capability
- Transport cases meet the most demanding quality classifications and standards such as MIL-STD-810F and FED-STD-101C
- Optional 3-axis version

## Nextvision raptor

- Weight 640 g
- EO resolution 1920 x 1080, Zoom X80 (40X + 2X digital)
- Thermal resolution 1280 x 720, LWIR uncooled, 8X digital zoom
- Object Detection and Classification
- Static and moving object tracking
- Video recording
- IPX4
- Operating temperature -20 °C - +45 °C
- The Raptor represents NextVision's constant technological advancement that combines the features of an optical zoom and a thermal camera
- A lightweight long range dual EO-IR stabilized camera turret
- Transport cases meet the most demanding quality classifications and standards such as MIL-STD-810F and FED-STD-101C

- Supports KLV standard
- Housed in the single housing, Resistant to influences.
- UAV flight control and visual image reception
- UAV gimbal operation (during the recording of image, taking photos, controlling camera tracking direction and image zooming)

## Elistair tether stations

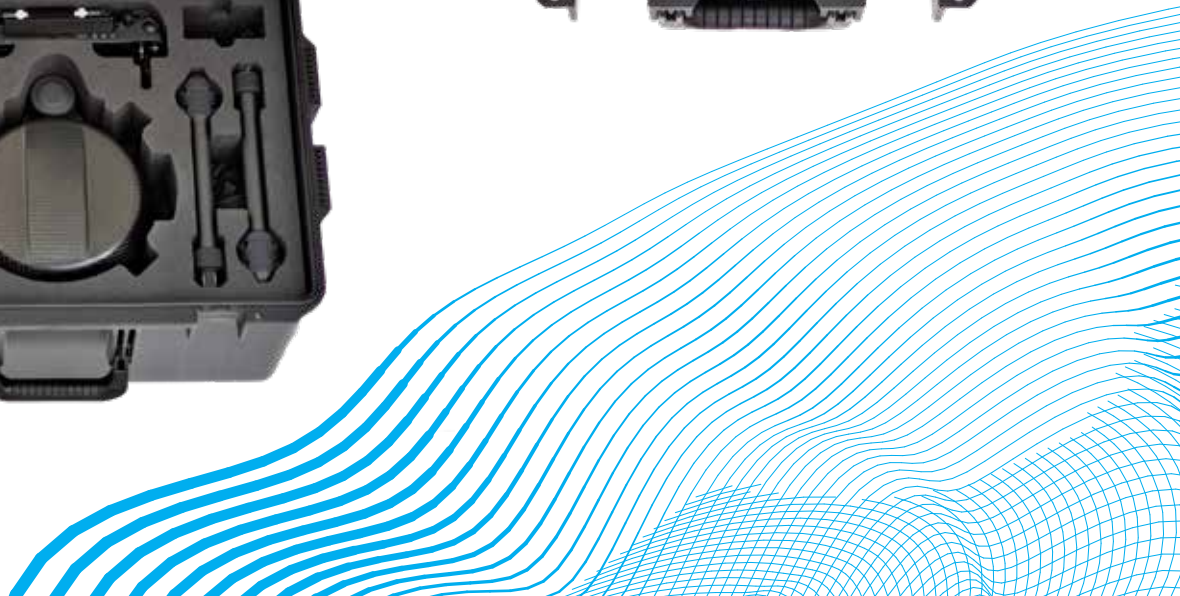
- Elistair tethers offer more options for drone operators who need a permanent aerial position
- The systems manufactured by the French company Elistair give unmanned devices unlimited operating time
- Designed to withstand harsh transport conditions and are deployable on any type of terrain

### LIGHT 4

- 70 m
- 200 Mbs
- 1.2 kW
- T-monitor
- 20 kg
- Set-up time less than 5 minutes
- Operating temperature -10 °C - +40 °C

### SAFE-T 2

- 100 m
- Fiber Optic and BPL datalink
- Dual-Comms option
- IP54
- 2.8+ kW
- Set-up time less than 5 minutes
- Operating temperature -20 °C - +50 °C





**Patria - Extreme conditions embedded.**

**Patria**

When if is not an option.

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